

Shinya Narumi et al., S.N. 10/618,244
Page 11

Dkt. 2271/69840

REMARKS

The application has been reviewed in light of the Office Action dated February 8, 2006. Claims 1-27 are pending. By this Amendment, claims 1, 4, 13, 16-18, 20, 23-25 and 27 have been amended to correct typographical errors therein. Accordingly, claims 1-27 are presented for reconsideration, with claims 1, 13, 20 and 27 being in independent form.

Claims 1, 2, and 5-27 were rejected under 35 U.S.C. § 102(e) as allegedly anticipated by U.S. Patent No. 6,580,684 to Miyake et al. Claims 3 and 4 were rejected under 35 U.S.C. § 103(a) as allegedly unpatentable over Miyake et al.

Applicant has carefully considered the Examiner's comments and the cited art, and respectfully submits that independent claims 1, 13, 20 and 27 are patentable over the cited art, for at least the following reasons.

This application relates to optical information recording techniques wherein information regarding recording conditions for recording onto an optical information recording medium are preformatted on the optical information recording medium. More specifically, the present application is directed to improved techniques for recording onto an optical information recording medium which improves compatibility or matching between the recording medium and the recording apparatus, wherein recording conditional information, which includes parameters of a plurality of multipulse patterns having different applied linear velocity ranges and information regarding linear velocities capable of recording with each of the multipulse patterns, is pre-formatted on the optical information recording medium, and the multipulse patterns are combinations of a heating pulse and a cooling pulse, which specify a light emission waveform of the laser beam.

Independent claim 1 is directed to an optical information recording medium. Independent

Shinya Narumi et al., S.N. 10/618,244
Page 12

Dkt. 2271/69840

claim 13 is directed to a method for determining a recording condition. Independent claim 20 is directed to an optical information recording apparatus. Independent claim 27 is directed to an information processing apparatus. Each of independent claims 1, 13, 20 and 27 addresses the above-mentioned features of this application, as well as additional features.

Miyake, as understood by Applicant, proposes an optical recording medium wherein physical characteristics information, such as information concerning the material, the disc type, the track pitch, the moment of inertia, and the size/configuration of the recording medium, is recorded as subcode on the recording medium. The physical characteristics information can also include information regarding the recommended linear velocity for recording information on the recording medium.

Fig. 13 and column 12, lines 32-37 of Miyake propose various information, including erase/ recording power ratio and rate information, which can be encoded as wobble information on the recording medium. Such erase/recording power ratio and rate information is used to set recording or erase laser power, and simply does not disclose or suggest parameters of a plurality of multipulse patterns having different applied linear velocity ranges and information regarding linear velocities capable of recording with each of the multipulse patterns.

In addition, it should be noted that although a number linear velocities are generally possible in optical information recording, the linear velocity information encoded in the optical recording medium of Miyake indicates a single recommended linear velocity for that recording medium.

Applicant does not find disclosure or suggestion in the cited art, however, of recording conditional information, which includes parameters of a plurality of multipulse patterns having different applied linear velocity ranges and information regarding linear velocities capable of

Shinya Narumi et al., S.N. 10/618,244
Page 13

Dkt. 2271/69840

recording with each of the multipulse patterns, is pre-formatted on the optical information recording medium, and the multipulse patterns are combinations of a heating pulse and a cooling pulse, which specify a light emission waveform of the laser beam, as provided by the claimed invention of claim 1 of the present application.

Independent claims 13, 20 and 27 are patentably distinct from the cited art for at least similar reasons.

Accordingly, for at least the above-stated reasons, Applicant respectfully submits that independent claims 1, 13, 20 and 27, and the claims depending therefrom, are patentable over the cited art.

In view of the remarks hereinabove, Applicant submits that the application is now in condition for allowance. Accordingly, Applicant earnestly solicits the allowance of the application.

If a petition for an extension of time is required to make this response timely, this paper should be considered to be such a petition. The Patent Office is hereby authorized to charge any fees that may be required in connection with this amendment and to credit any overpayment to our Deposit Account No. 03-3125.

If a telephone interview could advance the prosecution of this application, the Examiner is respectfully requested to call the undersigned attorney.

Respectfully submitted,


Paul Teng, Reg. No. 40,837
Attorney for Applicant
Cooper & Dunham LLP
Tel.: (212) 278-0400